```matlab
% Bisection Method on function F(x)=x^4-25
clc;
clear all;

% Inputs: a, b, tol, N0
tol = 1e-5; % error tolerance
N0 = 20; % maximum number of iterations
a=2; % starting left point
b=3; % starting right point

% Start Iterating

n = 1;
Fa = a^4-25;
Fb = b^4-25;


while n <   N0

  p = a + (b-a)/2; % better way for writing p = (a+b)/2
  Fp = p^4-25; % evaluate the function at p

   if Fp==0 || (b-a)/2 < tol
       % close enough to actual root, stop iteration
       break;
   elseif sign(Fa)*sign(Fp) > 0
       % continue search in right half interval
       a = p;
       Fa = Fp;
   else
       % continue search in left half interval
       b = p;
       Fb = Fp;
   end
   n = n + 1;

end

fprintf('Iteration number = %d \n', n);
fprintf('p =  %.6f \n',p);
fprintf('F(p) = %.4f \n', p^4-25);
fprintf('Error= %.2e',abs(p-sqrt(5)));
```